Index of Claims

| Appli | cation | /Contro | l No. |
|-------|--------|---------|-------|

10/739,353 Examiner

Jasmine Song

Applicant(s)/Patent under Reexamination

ITO ET AL.

**Art Unit** 

2188

| 1 | Rejected |
|---|----------|
|   | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|       | Щ_                     |                                                  |             | _                                                |          |          |              |          |                                                  |              |                   | ,            | _        | Ь.       |
|-------|------------------------|--------------------------------------------------|-------------|--------------------------------------------------|----------|----------|--------------|----------|--------------------------------------------------|--------------|-------------------|--------------|----------|----------|
| Claim | T                      |                                                  | ate         |                                                  |          | 7        | Cla          | im       |                                                  |              | [                 | Date         |          | _        |
| Final | 90/5/                  |                                                  |             |                                                  |          |          | Final        | Original |                                                  |              |                   |              |          |          |
| 1     | <del> </del>           | ╁┼┼┤                                             | -           |                                                  | $\dashv$ | ┥        | _            | 51       | _                                                |              |                   | $\vdash$     |          | ┢        |
| 2     | 111                    |                                                  | $\neg$      | $\Box$                                           |          | 7        |              | 52       |                                                  |              |                   | $\vdash$     |          | T        |
| 3     | 11/                    |                                                  |             |                                                  |          | 7        |              | 53       |                                                  |              |                   |              | Г        | Γ        |
| 4     | 0                      |                                                  | $\neg \neg$ | П                                                |          | 7        |              | 54       | $\sqcap$                                         | Π            | П                 | Г            |          | Γ        |
| 5     | V                      |                                                  |             |                                                  |          |          |              | 55       |                                                  | П            |                   |              | П        | Γ        |
| 6     | $\Pi\Pi$               |                                                  |             |                                                  |          | 7        |              | 56       |                                                  |              |                   |              |          | Γ        |
| 7     |                        |                                                  |             |                                                  |          |          |              | 57       |                                                  |              |                   |              |          | Γ        |
| 8     |                        |                                                  |             |                                                  |          |          |              | 58       |                                                  |              |                   |              |          | Γ        |
| 9     | Ш                      |                                                  |             |                                                  |          |          |              | 59       |                                                  |              |                   |              |          |          |
| 10    |                        |                                                  |             |                                                  |          |          |              | 60       |                                                  |              |                   |              |          |          |
| 11    | 111_                   | $\sqcup \sqcup$                                  |             |                                                  |          | _        |              | 61       |                                                  |              |                   |              | <u> </u> | L        |
| 12    | Ш_                     | $\sqcup \sqcup$                                  | $\bot$      | $\sqcup$                                         |          | 4        |              | 62       | $\perp$                                          | _            | _                 | _            | L        | L        |
| 13    | V                      | $\sqcup \sqcup$                                  |             | $\sqcup$                                         |          | 4        | <u> </u>     | 63       |                                                  | <u> </u>     | <u> </u>          | <u> </u>     | <u> </u> | L        |
| 14    | <u> </u>               | $\bot$                                           | -           | Щ                                                | _        | 4        | <u> </u>     | 64       |                                                  | 1—           | _                 | <u> </u>     | ├_       | L        |
| 15    | <b>V</b>  _            | +                                                | +           | <b> </b>                                         |          | 4        |              | 65       |                                                  | _            | <u> </u>          | <u> </u>     | <u> </u> | L        |
| 16    |                        | +                                                |             | ⊢                                                |          | 4        |              | 66       |                                                  | -            | <u> </u>          | <u> </u>     | <u> </u> | L        |
| 17    | H                      |                                                  | _           | $\vdash$                                         | $\perp$  | 4        | <u> </u>     | 67       | $\perp$                                          | ⊢            | ⊢                 | <u> </u>     | <u> </u> | -        |
| 18    | $+\!\!+\!\!\!+\!\!\!-$ | 1                                                |             | -                                                | _        | 4        |              | 68       |                                                  | $\vdash$     | $\vdash$          | _            | <u> </u> | H        |
| 19    | ╂╂┼┼                   | +                                                | -           | <del>                                     </del> | $\dashv$ | 4        |              | 69       | _                                                | ┢            | -                 | <del> </del> | ├        | ⊦        |
| 20    | <b>V</b>               | +                                                |             | ╁┼                                               | +        | ┥        | $\vdash$     | 70<br>71 |                                                  | ╁            | ⊢                 | $\vdash$     | -        | ⊦        |
| 22    | 7                      | +                                                | +           | ╁╌╂                                              | +        | -        |              | 72       |                                                  | ┢            | ⊢                 | ⊢            | ├—       | ⊦        |
| 23    |                        | +                                                | +           | 1-1                                              |          | ┨        | <u> </u>     | 73       | +                                                | ┢            | Н                 | $\vdash$     | $\vdash$ | H        |
| 24    | +                      | <del>                                     </del> | +           | ↤                                                | $\dashv$ | ┨        | -            | 74       | -                                                | $\vdash$     | ┢                 | $\vdash$     | $\vdash$ | H        |
| 25    | +                      | +                                                | -           | $\vdash$                                         |          | ┪        |              | 75       | +                                                | ┢            | ┢                 | $\vdash$     | $\vdash$ | ┝        |
| 26    |                        |                                                  |             | 1 1                                              | $\pm$    | ┨ .      |              | 76       | _                                                | ╁            | $\vdash$          | $\vdash$     | $\vdash$ | H        |
| 27    |                        | 111                                              | +           | 1 1                                              | $\dashv$ | 1        | · · · · · ·  | 77       | _                                                | -            | $\vdash$          | $\vdash$     |          | t        |
| 28    |                        |                                                  | _           |                                                  |          | 7        | _            | 78       | $\vdash$                                         | $\vdash$     | _                 | _            |          | t        |
| 29    |                        |                                                  |             |                                                  | $\top$   | 7        |              | 79       |                                                  | T            | $\vdash$          | $\vdash$     | Г        | T        |
| 30    |                        |                                                  |             | $\Box$                                           | T        | 7        |              | 80       |                                                  | Г            |                   |              |          | T        |
| 31    |                        |                                                  |             | П                                                |          | 7        |              | 81       |                                                  | Ī            |                   |              |          | T        |
| 32    |                        |                                                  |             |                                                  |          | ٦.       |              | 82       |                                                  |              |                   |              |          | Γ        |
| 33    |                        |                                                  |             |                                                  |          |          |              | 83       |                                                  | П            |                   |              | Π        | Γ        |
| 34    |                        |                                                  |             |                                                  |          |          |              | 84       |                                                  |              |                   |              |          |          |
| 35    |                        |                                                  |             |                                                  |          | _        |              | 85       |                                                  |              | 匚                 |              |          | Ĺ        |
| 36    | $\perp \perp$          |                                                  |             | LТ                                               | $\bot$   | 4        |              | 86       |                                                  |              |                   | _            | L        | L        |
| 37    |                        |                                                  |             |                                                  |          | 4        | L            | 87       |                                                  | $oxed{oxed}$ | <u> </u>          | _            |          | L        |
| 38    | <b>├</b>               |                                                  |             | Ш                                                |          | 4        | L            | 88       | igspace                                          | <u> </u>     | $ldsymbol{f eta}$ | <u> </u>     | _        | L        |
| 39    | Щ_                     |                                                  | $\bot$      | ╙                                                | _ _      | 4        | <u> </u>     | 89       |                                                  | ↓_           | <u> </u>          | <u> </u>     | <u> </u> | L        |
| 40    | $\perp \!\!\! \perp$   | $\sqcup \sqcup$                                  | $\perp$     | $\sqcup$                                         |          | 4        | ļ            | 90       |                                                  | ╙            | <u> </u>          |              | ╙        | L        |
| 41    | <b>├</b>               | $\perp \perp \mid$                               |             |                                                  |          | 4        | <u> </u>     | 91       |                                                  | ├-           | <del>  -</del>    | <del> </del> | ├-       | ╀        |
| 42    | $\vdash$               | ++                                               |             | $\vdash$                                         | +        | -        |              | 92       | <del>                                     </del> | ├-           | $\vdash$          | <b> </b>     | -        | +        |
| 43    | $\vdash$               | <del>┤╶</del> ┤╼┤                                | +           | $\vdash \vdash$                                  | +        | Ⅎ.       | <u> </u>     | 93<br>94 |                                                  | <del> </del> | $\vdash$          | -            | $\vdash$ | $\vdash$ |
| 44    | $\vdash$               | +-+-                                             | $\dashv$    | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ |              | 95       |                                                  | -            | -                 | -            | ⊢        | $\vdash$ |
| 45    | $\vdash$               | +                                                |             |                                                  | +        | -        | <b> </b>     | 96       | -                                                | $\vdash$     | $\vdash$          | $\vdash$     | -        | $\vdash$ |
| 46    | +                      | 1                                                | $\dashv$    | $\vdash$                                         | +        | -        | $\vdash$     | 97       |                                                  | ╀─           | $\vdash$          | ⊢            | ├        | $\vdash$ |
| 48    | ++                     | 1                                                | +           | H                                                | +        | ┨        | <del> </del> | 98       | $\vdash$                                         | $\vdash$     | ├                 | $\vdash$     | -        | $\vdash$ |
| 49    | ++                     | ╁╌┼╾┤                                            | $\dashv$    | $\vdash$                                         | +        | $\dashv$ | <u> </u>     | 99       | $\vdash$                                         | $\vdash$     | $\vdash$          | $\vdash$     | $\vdash$ | ۲        |
| 50    | ++-                    | +                                                | $\dashv$    |                                                  | $\dashv$ | $\dashv$ |              | 100      |                                                  | <del> </del> | -                 | $\vdash$     | $\vdash$ | H        |
|       |                        |                                                  |             | 1_1                                              |          |          |              |          |                                                  |              | Ь_                | Щ            | L        |          |

| <u></u>  | 21111    | _        | _                                                | _        |                                                  | 2010                                             |          | _                                                | _                                                |                                                  |
|----------|----------|----------|--------------------------------------------------|----------|--------------------------------------------------|--------------------------------------------------|----------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| Final    | Original |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
| <b>—</b> | 51       | _        | -                                                |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 51<br>52 |          | -                                                | $\vdash$ | _                                                | $\vdash$                                         |          |                                                  | H                                                | -                                                |
| -        | 53       | _        | -                                                | -        | _                                                | $\vdash$                                         |          | _                                                |                                                  | _                                                |
| $\vdash$ | 54       | _        | $\vdash$                                         | ⊢        | $\vdash$                                         | _                                                |          |                                                  | -                                                | -                                                |
| -        | 55       | -        | $\vdash$                                         |          | $\vdash$                                         | Н                                                | Η.       |                                                  | $\vdash$                                         |                                                  |
|          | 56       | _        | -                                                |          | -                                                | H                                                | _        | _                                                | ⊢                                                | _                                                |
|          | 57       | _        | H                                                | _        | -                                                | H                                                | _        |                                                  | ⊢                                                |                                                  |
|          | 50       | _        | -                                                | _        | L                                                | -                                                | _        | _                                                | $\vdash$                                         | _                                                |
| <u> </u> | 58       | _        | -                                                | $\vdash$ | _                                                | _                                                |          | _                                                | ├                                                |                                                  |
|          | 59       | _        | <u> </u>                                         |          | _                                                | _                                                |          | _                                                | ⊢                                                | _                                                |
|          | 60       | _        | _                                                | _        | _                                                | _                                                | $\vdash$ | _                                                | -                                                | _                                                |
|          | 61       | _        |                                                  |          |                                                  |                                                  |          |                                                  |                                                  | _                                                |
|          | 62       | _        | L                                                |          | _                                                | _                                                |          |                                                  | <u> </u>                                         |                                                  |
|          | 63       | _        | <u> </u>                                         | _        | _                                                | <u> </u>                                         |          |                                                  | _                                                |                                                  |
| -        | 64       |          | ļ                                                | <u> </u> | _                                                | ļ                                                | L        |                                                  |                                                  | _                                                |
|          | 65       | _        |                                                  | <u> </u> | <u> </u>                                         | _                                                |          |                                                  | _                                                | _                                                |
|          | 66       |          | L                                                |          | _                                                | _                                                |          |                                                  |                                                  | _                                                |
| <u> </u> | 67       |          | L                                                | <u> </u> | <u> </u>                                         |                                                  | _        |                                                  |                                                  |                                                  |
| <u> </u> | 68<br>69 |          |                                                  | <u> </u> |                                                  |                                                  | L        |                                                  |                                                  |                                                  |
|          | 69       |          |                                                  |          |                                                  |                                                  | L_       |                                                  |                                                  | _                                                |
|          | 70       |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 71       |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 72       |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 73       |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 73<br>74 |          |                                                  |          |                                                  |                                                  | Г        |                                                  |                                                  |                                                  |
|          | 75       |          |                                                  |          | Г                                                |                                                  |          |                                                  |                                                  |                                                  |
|          | 76<br>77 |          |                                                  |          |                                                  |                                                  | Г        |                                                  | Г                                                |                                                  |
|          | 77       |          |                                                  |          | Г                                                |                                                  |          |                                                  |                                                  |                                                  |
|          | 78       |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 79       |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 80       |          | Г                                                |          | _                                                |                                                  |          |                                                  |                                                  |                                                  |
|          | 81       |          | Г                                                |          | Г                                                |                                                  |          |                                                  |                                                  |                                                  |
|          | 82       |          |                                                  |          |                                                  |                                                  |          |                                                  | Г                                                |                                                  |
|          | 82<br>83 |          | i                                                | Г        |                                                  |                                                  | $\vdash$ |                                                  |                                                  |                                                  |
|          | 84       |          |                                                  |          |                                                  |                                                  |          |                                                  |                                                  |                                                  |
|          | 85       |          |                                                  |          |                                                  |                                                  |          |                                                  | T                                                | _                                                |
|          | 86       |          |                                                  | $\vdash$ |                                                  |                                                  | $\vdash$ | -                                                | <del>                                     </del> | ┈                                                |
| <b>—</b> | 87       |          |                                                  | Ι-       |                                                  | $\vdash$                                         | $\vdash$ | _                                                | <del>                                     </del> |                                                  |
|          | 88       |          | T                                                |          | <del>                                     </del> |                                                  | $\vdash$ |                                                  | T                                                | H                                                |
| <b></b>  | 89       |          | ┢                                                | $\vdash$ | $\vdash$                                         | ┢                                                | _        |                                                  | _                                                | $\vdash$                                         |
| -        | 90       | _        | -                                                | $\vdash$ | $\vdash$                                         | ┢╌                                               | $\vdash$ | _                                                | _                                                | $\vdash$                                         |
| -        | 91       | _        | $\vdash$                                         | $\vdash$ | $\vdash$                                         | -                                                | $\vdash$ | _                                                | $\vdash$                                         | $\vdash$                                         |
| -        | 92       | $\vdash$ | $\vdash$                                         | -        | <u> </u>                                         | <del>                                     </del> | Н        |                                                  | H                                                | Η-                                               |
| _        | 93       | $\vdash$ | <del>                                     </del> | $\vdash$ | $\vdash$                                         | $\vdash$                                         | Н        | <del>                                     </del> | $\vdash$                                         | <del>                                     </del> |
| -        | 94       | H        | -                                                |          |                                                  | -                                                | $\vdash$ | $\vdash$                                         | <del>                                     </del> | -                                                |
|          | 95       | -        |                                                  | -        | -                                                |                                                  | $\vdash$ | $\vdash$                                         | <del>  -</del>                                   | -                                                |
|          | 96       |          | $\vdash$                                         | $\vdash$ | $\vdash$                                         | $\vdash$                                         | -        |                                                  |                                                  | <u> </u>                                         |
| $\vdash$ | 97       | -        | $\vdash$                                         | -        | H                                                | ⊢                                                | -        | <u> </u>                                         | $\vdash$                                         |                                                  |
| -        | 98       | -        | $\vdash$                                         | $\vdash$ | ├                                                | $\vdash$                                         | -        | -                                                | $\vdash$                                         | _                                                |
| $\vdash$ | 99       | $\vdash$ | $\vdash$                                         | $\vdash$ | $\vdash$                                         | $\vdash$                                         | $\vdash$ | $\vdash$                                         | $\vdash$                                         | <del> </del>                                     |
|          | 100      |          | -                                                |          |                                                  | $\vdash$                                         | $\vdash$ |                                                  | $\vdash$                                         | -                                                |

| CI                                               | aim                                                  | Date                                             |          |          |                                                  |                                                  |              |          | _        |          |  |
|--------------------------------------------------|------------------------------------------------------|--------------------------------------------------|----------|----------|--------------------------------------------------|--------------------------------------------------|--------------|----------|----------|----------|--|
| U                                                |                                                      | <del>                                     </del> |          |          |                                                  |                                                  |              |          |          |          |  |
| Final                                            | Original                                             |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 101<br>102                                           |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 102                                                  |                                                  |          |          |                                                  |                                                  | _            |          |          | Ш        |  |
|                                                  | 103                                                  |                                                  |          | $\vdash$ | _                                                |                                                  | _            |          |          | Щ        |  |
|                                                  | 104<br>105                                           |                                                  | _        |          | _                                                | _                                                | H            | _        |          | Н        |  |
|                                                  | 105                                                  | $\vdash$                                         | _        | _        |                                                  | -                                                | _            | _        | _        | Н        |  |
|                                                  | 107                                                  | H                                                | $\vdash$ | $\vdash$ |                                                  |                                                  | <del> </del> | -        | -        | Н        |  |
|                                                  | 108                                                  | H                                                | _        | $\vdash$ | -                                                | -                                                | $\vdash$     | H        | -        | $\vdash$ |  |
|                                                  | 109                                                  | $\vdash$                                         |          |          |                                                  |                                                  |              |          | $\vdash$ | Н        |  |
|                                                  | 110                                                  |                                                  |          |          |                                                  | $\vdash$                                         |              |          | <u> </u> | П        |  |
|                                                  | 111                                                  |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 112                                                  |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 112<br>113<br>114<br>115                             | L                                                | _        | L        | L                                                | oxdot                                            | <u> </u>     |          | L        | Щ        |  |
|                                                  | 114                                                  |                                                  | <u> </u> | _        | _                                                |                                                  |              |          | _        | Щ        |  |
| <u> </u>                                         | 115                                                  | <u> </u>                                         | ├-       | <u> </u> | $\vdash$                                         | l-                                               | <u> </u>     |          | <u> </u> | Н        |  |
|                                                  | 117                                                  | -                                                | ├—       | ┝        | ├                                                | -                                                | -            | _        | ┝        | H        |  |
|                                                  | 117<br>118                                           | H                                                | $\vdash$ | $\vdash$ | ┢                                                | $\vdash$                                         | $\vdash$     |          | $\vdash$ | Н        |  |
|                                                  | 1119                                                 | -                                                | ┢        | $\vdash$ | <del>                                     </del> | _                                                | $\vdash$     |          | _        | Н        |  |
|                                                  | 120                                                  | $\vdash$                                         | _        | -        |                                                  |                                                  | Ι-           |          |          | Н        |  |
|                                                  | 121                                                  |                                                  |          |          |                                                  |                                                  |              |          |          | П        |  |
|                                                  | 120<br>121<br>122                                    |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 |                                                  |          |          |                                                  |                                                  |              |          |          | Ш        |  |
|                                                  | 124                                                  | <u> </u>                                         | _        |          |                                                  | _                                                | <u> </u>     | _        | <u> </u> | Ш        |  |
|                                                  | 125                                                  | ├-                                               |          |          |                                                  |                                                  | -            | <u> </u> | -        | Н        |  |
|                                                  | 120                                                  | ⊢                                                | <u> </u> | -        | -                                                |                                                  | ├─           | _        | -        | Н        |  |
|                                                  | 128                                                  | ⊢                                                | H        |          | ┢                                                | -                                                | ┢            |          |          | Н        |  |
|                                                  | 129                                                  | $\vdash$                                         | -        |          | -                                                |                                                  | -            | $\vdash$ |          | Н        |  |
|                                                  | 130                                                  |                                                  |          |          |                                                  |                                                  |              |          |          | П        |  |
|                                                  | 131                                                  |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 131<br>132                                           |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 133                                                  | _                                                |          |          | L                                                | _                                                | L            |          |          | Ш        |  |
|                                                  | 134                                                  | <u> </u>                                         | _        |          | L                                                |                                                  | <u> </u>     | _        |          | Щ        |  |
|                                                  | 135                                                  | ⊢                                                | _        |          |                                                  | <u> </u>                                         |              | <u> </u> | <u> </u> | Н        |  |
|                                                  | 136                                                  | ⊢                                                | $\vdash$ | -        |                                                  | _                                                | $\vdash$     | <u> </u> | $\vdash$ | Н        |  |
|                                                  | 137<br>138                                           | ⊢                                                | $\vdash$ | _        |                                                  |                                                  | ⊢            | _        | $\vdash$ | Н        |  |
| <del>                                     </del> | 139                                                  | $\vdash$                                         | $\vdash$ | $\vdash$ | $\vdash$                                         | ┢                                                | ┝            | $\vdash$ | $\vdash$ | H        |  |
|                                                  | 140                                                  | $\vdash$                                         | $\vdash$ |          | $\vdash$                                         | Т                                                | $\vdash$     | $\vdash$ | $\vdash$ | Н        |  |
|                                                  | 141                                                  | Г                                                | Т        | Г        | Г                                                |                                                  | Τ            | _        |          | П        |  |
|                                                  | 142                                                  |                                                  |          |          |                                                  |                                                  |              |          |          |          |  |
|                                                  | 143                                                  |                                                  | $\Box$   | $\Box$   | $\Box$                                           |                                                  |              |          |          |          |  |
|                                                  | 144                                                  | _                                                |          | L        | L                                                |                                                  | L_           | <u> </u> | L        | $\sqcup$ |  |
|                                                  | 145                                                  | $\vdash$                                         | <u> </u> | <u> </u> | <u> </u>                                         | $\vdash$                                         | <u> </u>     | _        | L        | Щ        |  |
| ļ                                                | 146<br>147                                           | H                                                | $\vdash$ | -        | $\vdash$                                         | H                                                | L            | H        | ├-       | Н        |  |
| L                                                | 148                                                  | $\vdash$                                         | -        | $\vdash$ | $\vdash$                                         | H                                                | -            | -        | -        | Н        |  |
|                                                  | 149                                                  |                                                  | $\vdash$ | $\vdash$ | $\vdash$                                         | <del>                                     </del> | ⊢            | $\vdash$ | $\vdash$ | Н        |  |
|                                                  | 150                                                  |                                                  |          | -        |                                                  | $\vdash$                                         | ┢            |          | ┢╌       | Н        |  |
|                                                  |                                                      |                                                  |          | L        | L                                                |                                                  |              |          |          |          |  |